

Sample Calculation for EBDC Exposure from Cigarettes
Containing 0.2 ppm⁽¹⁾

0.2 ppm = 0.2 ug/g = 0.2 ug/cigarette

0.2 ug/cigarette x 20 cigarettes/day = 4 ug/day/pack

4 ug/day/pack/70 kg man = 0.057 ug/kg/day = 0.000057 mg/kg/day

for a one pack per day smoker (assuming 100% transfer to mainstream smoke)

0.005 mg/kg/day = 88 packs/day = 1760
0.000057 mg/kg/day/pack cigarettes/day

This means that a person would have to smoke 1760 cigarettes/day to reach the equivalent of the ADI. (Actually, it would be 17,600 cigarettes/day, since realistically, a smoker would be exposed to only approximately 10% of pesticide residue in the cigarette)

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(1) Calculation based on proposed Italian regulation.